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PPLICATION NO. FILING DATE		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/720,645		11/24/2003	Jong-Ho Lee	SWO-0005	4692
23413	7590	03/14/2005		EXAM	INER
CANTOR		•	RAO, G NAGESH		
55 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002				ART UNIT	PAPER NUMBER
				1722	
				DATE MAILED: 03/14/2009	5

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/720,645	LEE, JONG-HO				
Office Action Summary	Examiner	Art Unit				
	G. Nagesh Rao	1722				
The MAILING DATE of this communicatio Period for Reply	n appears on the cover sheet wit	th the correspondence address				
A SHORTENED STATUTORY PERIOD FOR R THE MAILING DATE OF THIS COMMUNICATI - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communicatic - If the period for reply specified above is less than thirty (30) days - If NO period for reply is specified above, the maximum statutory - Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	ION. FR 1.136(a). In no event, however, may a reon. , a reply within the statutory minimum of thirty period will apply and will expire SIX (6) MON's statute, cause the application to become AB.	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communication. ANDONED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ⊠	This action is FINAL . 2b)⊠ This action is non-final.					
	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice un	der <i>Ex parte Quayle</i> , 1935 C.D.	. 11, 453 O.G. 213.				
Disposition of Claims						
4)⊠ Claim(s) <u>1 and 2</u> is/are pending in the app	plication.					
4a) Of the above claim(s) is/are wit	hdrawn from consideration.					
5) Claim(s) is/are allowed.	Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-2</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction a	and/or election requirement.					
Application Papers						
9)☐ The specification is objected to by the Exa	iminer.					
10)☐ The drawing(s) filed on is/are: a)☐] accepted or b) ☐ objected to b	by the Examiner.				
Applicant may not request that any objection t	- · · ·					
Replacement drawing sheet(s) including the c	•	· · · · · · · · · · ·				
11) ☐ The oath or declaration is objected to by the	ne Examiner. Note the attached	Office Action or form P1O-152.				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fo	reign priority under 35 U.S.C. §	119(a)-(d) or (f).				
a)⊠ All b) Some * c) None of:						
 Certified copies of the priority docu 	ments have been received.					
2. Certified copies of the priority docu	·					
3. Copies of the certified copies of the	· ·	received in this National Stage				
application from the International B	, , , , , , , , , , , , , , , , , , , ,					
* See the attached detailed Office action for	a list of the certified copies not i	received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview S	summary (PTO-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-94	Paper No(s	s)/Mail Date				
 Information Disclosure Statement(s) (PTO-1449 or PTO/S Paper No(s)/Mail Date 	SB/08) 5) \(\bigcap \) Notice of in 6) \(\bigcap \) Other:	nformal Patent Application (PTO-152)				

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Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- 1. Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- 3. Resolving the level of ordinary skill in the pertinent art.
- 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 1. Claim 1 rejected under 35 U.S.C. 103(a) as being unpatentable over Figure 4 of admitted prior art by the applicant in view of Yasoda (US 6,722,245 B2).

As shown by the applicant's admission of prior art in Figure 4, there enclosed is a drawing of a conventional molding apparatus (Page 5 of applicant's specification). The figure 4 drawing shows a frame (111), a die (121), a stripper (141), a punch holder (151), a press slide (171), and a rotational servo motor (175).

The admitted prior art however lacks the specific teaching of replacing the rotational servo motor with a linear motor.

In an apparatus dealing with a pressing function, Yasoda 245 teaches a punching unit apparatus used for boring a pattern or hole into a material that easily spreads when a pressing force is applied. It is taught that the punching die's driving source is operated through an electric motor. The likes of this motor could be a servo, linear, stepping motor, or the likes of one (Column 2 Lines 19-26).

Therefore it would be obvious to one skilled in the art of press molding to substitute the likes of a servo motor with a linear motor, since they are seen as equivalent means for electro-mechanically driving the apparatus.

Furthermore it would then be an expected result to one skilled in the art to have to include a linear joint block, when replacing the servo motor with a linear motor, in order for the motor to have proper communication with the die, due to the motor's method of function.

2. Claim 2 rejected under 35 U.S.C. 103(a) as being unpatentable over Figure 4 of admitted prior art by the applicant in view of Yasoda (US 6,722,245 B2) in further view of Naito (US 4,977, 804).

With respect to claim 2, the aforementioned arguments apply. However they fail to teach the need for holes for discharging scrap material.

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In a punch press apparatus, Naito 804 explains that it is known to want to discharge materials after being punched out by a die (Column 1 Lines 13-25).

Therefore it would be obvious to one skilled in the art of press molding involving a punch and die, to have a means such as a hole for discharging the scrap material punched out by the die. This would prevent clogging of material and speed up processing time, rather than having to open the machine to remove the scrap and then restart on a new piece of material.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to G. Nagesh Rao whose telephone number is (571) 272-2946. The examiner can normally be reached on 9AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Benjamin Utech can be reached on (571) 272-1137. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

GNR

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